



# **Town of Clarkson Office of the Supervisor Pre-Disaster Mitigation Plan**

## **Appendix B – 8T**

### **Hazard Specific Analysis: Radiological (Fixed)**

#### **Definition:**

“Release or threat of release of radioactive material from a nuclear power generating station or research reactor or other stationary source of radioactivity.”<sup>1</sup>

#### **Description:**

“An infrequent event that potentially could include a large, multi-jurisdictional area, and result in moderate property damage, contamination of farm and water supplies, and economic damage.”<sup>2</sup> The threat of a radiological event at a fixed facility is always a possibility because of the proximity of the Ginna Nuclear Power Station. There are substantial safety features and security measures in place at this facility, however by its existence and operational proximity this hazard has a rating of 236.2.

#### **Overview of specific hazard locations and the extent of the hazard:**

The Ginna Nuclear Power Station is located on the South Shore of Lake Ontario in Wayne County. The federal Emergency Planning Zone (EPZ) and its 10-mile radius overlay portions of the towns of Webster and Penfield, and the Village of Webster. The 10-mile EPZ is sectorized into Emergency Response Planning Areas (ERPAs) for Emergency Management purposes. In coordination with New York State, and as tested by the Federal Emergency Management Agency, Monroe and Wayne County plans address public alerting and notification, emergency response, special need populations, evacuation routes, detection and monitoring, decontamination, and public health among other topics. This plan and community Public Safety providers are tested on their response each year.

#### **Previous occurrences of the hazard:**

Specific data is pending.

#### **Probability of future occurrences and potential magnitude:**

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<sup>1</sup> HAZNY

<sup>2</sup> HAZNY

Despite its safe operation and stringent facility security, nuclear facilities nationwide are potential targets for terrorist attack.

**Maps of hazard areas:**

The attached map references the 50-mile Ingestion Pathway and the 10-mile EPZ for Ginna Station.

**Analysis of the impact on business, infrastructure & critical facilities:**

Impact on business could be significant depending on the magnitude of the event. Infrastructure could also be significantly impacted. Critical facilities such as hospitals and nursing homes could suffer extreme overload with an overwhelming number of victims. Public Safety providers could be affected on a major level.

**Specific information concerning estimated value (\$) of potential loss, damage to structures, casualties, etc:**

Specific data is pending.

**Notes on data limitations:**   None